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	Application No.	Applicant(s)	
Notice of Allowability	Application No.		
	09/827,971	SOULOGLOU ET AL.	
	Examiner	Art Unit	
	Chih-Ching Chow	2191	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS	
1. \boxtimes This communication is responsive to <u>6/25/07</u> .		V	
2. 🔀 The allowed claim(s) is/are <u>1-18</u> .			į
Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. eitted. Note the attached EXA are reason(s) why the oath or set be submitted.	n No If in this national stage application from the a reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF declaration is deficient.	
	-	7 (P10-948) attached	
1) hereto or 2) to Paper No./Mail Date		: # Off	
(b) ☐ including changes required by the attached Examiner'. Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1)			
each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of In	formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🛭 Interview Si	ummary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08),		Mail Date <u>8/27/07</u> . Amendment/Comment	
Paper No./Mail Date 4.	8. 🛭 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. 🗌 Other		
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Examiner's Amendment and Statement of Reasons for Allowance

1. This action is responsive to Applicant's amendment filed June 25, 2007.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Ronald R. Demsher, Registration Number 42,478, on August 27, 2007, asking for Terminal Disclaimers for obviating any potential Double Patenting rejection, and put the claims in condition for allowance.

The application has been amended as follows:

1. (Currently Amended) A method of generating an intermediate representation of a register-based program code that refers to a set of registers of a processor, the method comprising the computer implemented steps of:

generating a plurality of register objects each representing a respective one of said registers as referenced by the program code;

generating one or more expression objects each representing a respective operator or operand of said program code as that element arises in the program code; and

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generating a network of said register objects and expression objects with each said expression object being referenced by one or more of said register objects to which it relates either directly, or indirectly via references from other of said expression objects.

17. (Currently Amended) A system for generating an intermediate representation of a register-based program code which refers to a set of registers of a processor, comprising:

means for generating a plurality of register objects each representing a respective one of said registers as referenced by the program code[[.]];

means for generating one or more expression objects each representing a respective operator or operand of said program code as that element arises in the program code; and

means for generating a network of said register objects and expression objects with each said expression object being referenced by one or more of said register objects to which it relates either directly, or indirectly via references from other of said expression objects.

18. (Currently amended) A system for generating an intermediate representation of a register-based program code written for running on a programmable machine having a set of registers of a processor, the system comprising:

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means for generating a plurality of register objects, each said register object representing a respective one of the set of registers as referenced by the program code; and

means for generating a plurality of expression objects representing fixed values and/or relationships between said fixed values and said said registers according to said program code; and,

means for generating a branched tree-like network of said register objects and said expression objects having all of said register objects at the lowest basic root or tree-trunk level of the network with none of said register objects feeding into any other of said register objects.

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Examiner's Statement of Reason(s) for Allowance

- 3. Claims 1-18 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

 As Applicant indicates, the prior art of record does not teach or fairly suggest generating an intermediate representation of a register-based program code in the manner and combination in such a manner as recited in each of the independent claims 1, 16, 17, and 18 (see Applicant's REMARKS dated 12/15/2006, pages 6-7, and interview summary 9/12/2006). The dependent claims are allowable for at least the same reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Ching Chow whose telephone number is 571-272-3693. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chih-Ching Chow Examiner Art Unit 2191 September 10, 2007

CC

WEI ZHEN EXAMINER

SUPERVISOR